This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Previously presented) A method of displaying physiological patient data from a cyclic physiological waveform, the method comprising the acts of:

acquiring physiological patient data from a cyclic physiological waveform, the physiological patient data including a plurality of data points, each data point representing an amplitude of the physiological patient data;

assigning a first color to each data point having an amplitude in a first range; assigning a second color to each data point having an amplitude in a second range;

assigning a third color to each data point having an amplitude in a third range, the first color, the second color, and the third color all being different colors; and

displaying the data points in a colorized three dimensional representation.

- 2. (Previously presented) A method as set forth in claim 1, wherein the physiological patient data is electrocardiogram data.
- 3. (Previously presented) A method as set forth in claim 1, wherein the physiological patient data is blood pressure data.
- 4. (Previously presented) A method as set forth in claim 1, wherein the physiological patient data is cardiac output data.
- 5. (Previously presented) A method as set forth in claim 1, wherein the physiological patient data is pulse oximetry data.
- 6. (Original) A method as set forth in claim 1, and further comprising the acts of storing the physiological patient data in a memory array.

- 7. (Previously presented) A method as set forth in claim 6, wherein the data points represent a plurality of waveforms, wherein each waveform represents at least one cycle of the cyclic physiological waveform, and wherein the memory array is a waveform array.
- 8. (Previously presented) A method as set forth in claim 1, and further comprising the acts of parsing the physiological patient data into a series of waveforms, and wherein each waveform represents at least one cycle of the cyclic physiological waveform.
- 9. (Previously presented) A method as set forth in claim 8, wherein the series of waveforms are median waveforms, and wherein each median waveform represents a plurality of cycles of the cyclic physiological waveform.
- 10. (Previously presented) A method as set forth in claim 8, wherein the act of displaying includes the act of plotting the parsed waveforms in a temporal alignment to allow detection of long term trends in the physiological patient data.
- 11. (Previously presented) A method as set forth in claim 1, and further comprising the act of assigning a representative X coordinate, Y coordinate, and Z coordinate, to each data point.
- 12. (Previously presented) A method as set forth in claim 1, further comprising the act of parsing the data points into a series of median waveforms, wherein each median waveform represents a plurality of cycles of the cyclic physiological waveform, and wherein the act of displaying further includes the act of plotting the median waveforms in a temporal alignment.
- 13. (Previously presented) A method as set forth in claim 1, wherein the first range, the second range, and the third range are each within a relevant range.

- 14. (Previously presented) A method as set forth in claim 13, wherein the relevant range is +0.5mV to -0.5mV.
- 15. (Previously presented) A method of displaying physiological patient data from a cyclic physiological waveform, the method comprising:

acquiring physiological patient data from a cyclic physiological waveform; storing the physiological patient data in a memory array; and

displaying the physiological patient data in a colorized three dimensional representation, the act of displaying including the act of parsing the physiological patient data into a series of waveforms such that each successive waveform is plotted in a temporal alignment to allow detection of long term trends in the physiological patient data, the act of parsing each waveform into a series of successive data points such that each data point has a coordinate that is plotted on the display to produce a three dimensional representation, each successive data point having a discrete amplitude, the act of assigning a first color to each data point having an amplitude in a first range, the act of assigning a second color to each data point having an amplitude in a second range, and the act of assigning a third color to each data point having an amplitude in a third range, the first color, the second color, and the third color all being different colors.

- 16. (Original) A method as set forth in claim 15, wherein said physiological patient data is electrocardiogram data.
- 17. (Previously presented) A method as set forth in claim 15, wherein the physiological patient data is blood pressure data.
- 18. (Previously presented) A method as set forth in claim 15, wherein the physiological patient data is cardiac output data.

- 19. (Previously presented) A method as set forth in claim 15, wherein the physiological patient data is pulse oximetry data.
- 20. (Previously presented) A method as set forth in claim 15, wherein each waveform represents at least one cycle of the cyclic physiological waveform, and wherein the memory array is a waveform array.
- 21. (Currently amended) A method as set forth in claim 15, wherein the series of waveforms are median waveforms, and wherein each median waveform represents a plurality of eylcescycles of the cyclic physiological waveform.
- 22. (Original) A method as set forth in claim 15, wherein the relevant range is +0.5mV to -0.5mV.
- 23. (Previously presented) An apparatus for displaying physiological patient data from a cyclic physiological waveform, the apparatus comprising:

a display; and

a processor for producing a colorized three dimensional representation of physiological patient data from a cyclic physiological waveform, the physiological patient data including a plurality of data points, each data point having an amplitude representing a value of a physiological parameter and being assigned a first color when the amplitude is in a first range, a second color when the amplitude is in a second range, and a third color when the amplitude is in a third range, the first color, the second color, and the third color all being different colors.

24. (Previously presented) An apparatus as set forth in claim 23, and further comprising a patient monitoring device as the source of physiological patient data.

- 25. (Previously presented) An apparatus as set forth in claim 24, wherein the patient monitoring device includes a transducer for acquiring the physiological patient data from a patient.
- 26. (Original) An apparatus as set forth in claim 24, wherein the patient monitoring device is a Holter monitor.
- 27. (Original) An apparatus as set forth in claim 24, wherein the patient monitoring device is a stress-testing monitor.
- 28. (Original) An apparatus as set forth in claim 23, and further comprising a memory device connected to the processor.
- 29. (Previously presented) An apparatus as set forth in claim 28, wherein the physiological patient data is stored in a memory array.
- 30. (Previously presented) An apparatus as set forth in claim 29, wherein the data points represent a plurality of waveforms, wherein each waveform represents at least one cyclic physiological waveform, and wherein the memory array is a waveform array.
- 31. (Previously presented) An apparatus as set forth in claim 23, wherein the display is a black and white display capable of displaying/generating shades of gray in between black and white, wherein the first color is a first shade of gray, wherein the second color is a second shade of gray, and wherein the third color is a third shade of gray.
- 32. (Original) An apparatus as set forth in claim 23, wherein the display is a red-blue-green color display.

- 33. (Previously presented) An apparatus as set forth in claim 23, wherein each data point is assigned an X, Y, Z coordinate, and wherein the display has a plurality of pixels for displaying the respective coordinates.
- 34. (Original) An apparatus as set forth in claim 23, wherein the processor further comprises software for animation and walk through of three-dimensional representations.
- 35. (Previously presented) An apparatus as set forth in claim 23, wherein the processor further comprises software to receive the physiological patient data.
- 36. (Previously presented) An apparatus as set forth in claim 23, wherein the processor further comprises software to parse the physiological patient data.
- 37. (Previously presented) An apparatus as set forth in claim 36, wherein the physiological patient data is parsed into a series of waveforms, and wherein each waveform represents at least one cycle of the cyclic physiological waveform.
- 38. (Previously presented) An apparatus as set forth in claim 37, wherein the series of waveforms are median waveforms, and wherein each median waveform represents a plurality of cycles of the cyclic physiological waveform.
- 39. (Original) An apparatus as set forth in claim 23, wherein the processor further comprises software to generate a waveform display on the display.
- 40. (Original) An apparatus as set forth in claim 39, wherein the waveform display places the data points at respective pixels on the display.

- 41. (Previously presented) A software program for generating a display of physiological patient data from a cyclic physiological waveform, the software program comprising:
 - (a) a program module for acquiring physiological patient data from a cyclic physiological waveform;
 - (b) a program module for storing the physiological patient data in a memory array;
 - (c) a program module for displaying a colorized three dimensional representation of the physiological patient data;
 - (d) a program module for setting a current waveform to a first waveform in the memory array;
 - (e) a program module for providing a Z coordinate counter and initializing the Z coordinate counter to zero;
 - (f) a program module for providing a X coordinate counter and initializing the X coordinate counter to zero;
 - (g) a program module for providing a Y coordinate counter and initializing the Y coordinate counter to zero;
 - (h) a program module for determining a pixel color based on the Y coordinate of a data point, the pixel color being a first color when the Y coordinate is in a first range, a second color when the Y coordinate is in a second range, and a third color when the Y coordinate is in a third range, the first color, the second color, and the third color all being different colors;
 - (i) a program module for plotting a current data point of the current waveform at a current coordinate in the pixel color determined in (h);
 - (j) a program module for incrementing the X coordinate counter and repeating (h) and (i) until all data points in the current waveform are plotted; and
 - (k) a program module for incrementing the Z coordinate counter and repeating (h)-(j) until all waveforms in the waveform array are plotted.

- 42. (Previously presented) An apparatus for displaying physiological patient data from a cyclic physiological waveform, said apparatus comprising:
 - a display; and
- a means for producing a colorized three dimensional representation of physiological patient data from a cyclic physiological waveform, the physiological patient data including a plurality of data points, each data point having an amplitude representing a value of a physiological parameter and being assigned a first color when the amplitude is in a first range, a second color when the amplitude is in a second range, and a third color when the amplitude is in a third range, the first color, the second color, and the third color all being different colors.
- 43. (Original) An apparatus as set forth in claim 42, and further comprising a patient monitor device as a source of physiological patient data.
- 44. (Original) An apparatus as set forth in claim 43, wherein the patient monitor device includes a transducer for acquiring the physiological patient data from a patient.
- 45. (Original) An apparatus as set forth in claim 43, wherein the patient monitor device is a Holter monitor.
- 46. (Original) An apparatus as set forth in claim 43, wherein the patient monitor device is a stress-testing monitor.
- 47. (Previously presented) An apparatus as set forth in claim 42, wherein the means for producing a colorized three dimensional representation includes storing the physiological data.
- 48. (Original) An apparatus as set forth in claim 47, wherein the physiological patient data is stored in a memory array.

- 49. (Previously presented) An apparatus as set forth in claim 48, wherein the data points represent a plurality of waveforms, wherein each waveform represents at least one cycle of the cyclic physiological waveform, and wherein the memory array is a waveform array.
- 50. (Currently amended) An apparatus as set forth in claim 42, wherein the display is a black and white display capable of displaying/generating shades of gray in between black and white wherein the first color is a first shade of gray, wherein the second color is a second shade of gray, and wherein the third color is a third shade of gray.
- 51. (Currently amended) An apparatus as set forth in claim 42, wherein the display is a red-blue-green color display.
- 52. (Previously presented) An apparatus as set forth in claim 42, wherein the means is further configured to assign each data point an X, Y, Z coordinate, and wherein the display has a plurality of pixels for displaying the respective coordinates.
- 53. (Previously presented) An apparatus as set forth in claim 42, wherein the means for producing a colorized three dimensional representation includes animating the three dimensional representation for analysis of the three dimensional representation.
- 54. (Previously presented) An apparatus as set forth in claim 42, wherein the means for producing a colorized three dimensional representation includes receiving physiological data.
- 55. (Previously presented) An apparatus as set forth in claim 42, wherein the means for producing a colorized three dimensional representation includes parsing the physiological data.

- 56. (Currently amended) An apparatus as set forth in claim 55, where inwherein the physiological data is parsed into a series of waveforms, and wherein each waveform represents at least one cycle of the cyclic physiological waveform.
- 57. (Previously presented) An apparatus as set forth in claim 56, wherein the series of waveforms are median waveforms, and wherein each median waveform represents a plurality of cycles of the cyclic physiological waveform.
- 58. (Previously presented) An apparatus as set forth in claim 42, wherein the means for producing a colorized three dimensional representation includes generating a waveform display on the display.
- 59. (Original) An apparatus as set forth in claim 58, wherein the waveform display places the data points at respective pixels on the display.
- 60. (Previously presented) A method as set forth in claim 1, wherein the amplitude of the physiological patient data relates to an amplitude of the cyclic physiological waveform.
- 61. (Previously presented) A method as set forth in claim 1, wherein the amplitude of the physiological patient data is an amplitude of the cyclic physiological waveform.
- 62. (Previously presented) A method as set forth in claim 23, wherein the cyclic physiological waveform represents the physiological parameter.
- 63. (Previously presented) A method as set forth in claim 42, wherein the cyclic physiological waveform represents the physiological parameter.

STATEMENT CONCERNING COMMON OWNERSHIP

The present application Serial No. 09/711,691 and U.S. Patent No. 6,409,659 were, at the time the invention of the present application Serial No. 09/711,691 was made, owned by GE Medical Systems Information Technologies, Inc.